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# CONSTRUCTION



## HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE

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No. 17

Mr. G. W. Duncan, Equipment Engineer, Region 1, sends the following hints:

### Exhaust Fume Outlets for Trucks

In connection with the hauling of ERA and CCC workers to and from jobs, especially since canvas covers are being provided over stake body trucks, there have been many complaints about the accumulation of fumes under this canvas cover. The danger from this is real and to prevent it Engineering has developed an exhaust fume outlet which serves the purpose satisfactorily. It consists of a pipe along the side of the cab, same size as exhaust pipe, is connected to the muffler with which the trucks are provided by means of a flexible tubing and attached to the cab by means of two braces, one at the top and one at the bottom. This extension has its outlet one foot above the top of the canvas cover, thus permitting fumes to escape where they will do no harm. The cost is \$6.75 each. Plans are available if anyone should desire them.

### Logging Trailers

Rear ends and wheels of old dual wheel trucks have been salvaged to make up logging trailers and for hauling bridge steel, telephone poles and wood. The cost of fixing up these trailers is very small considering the amount of service that can be secured.

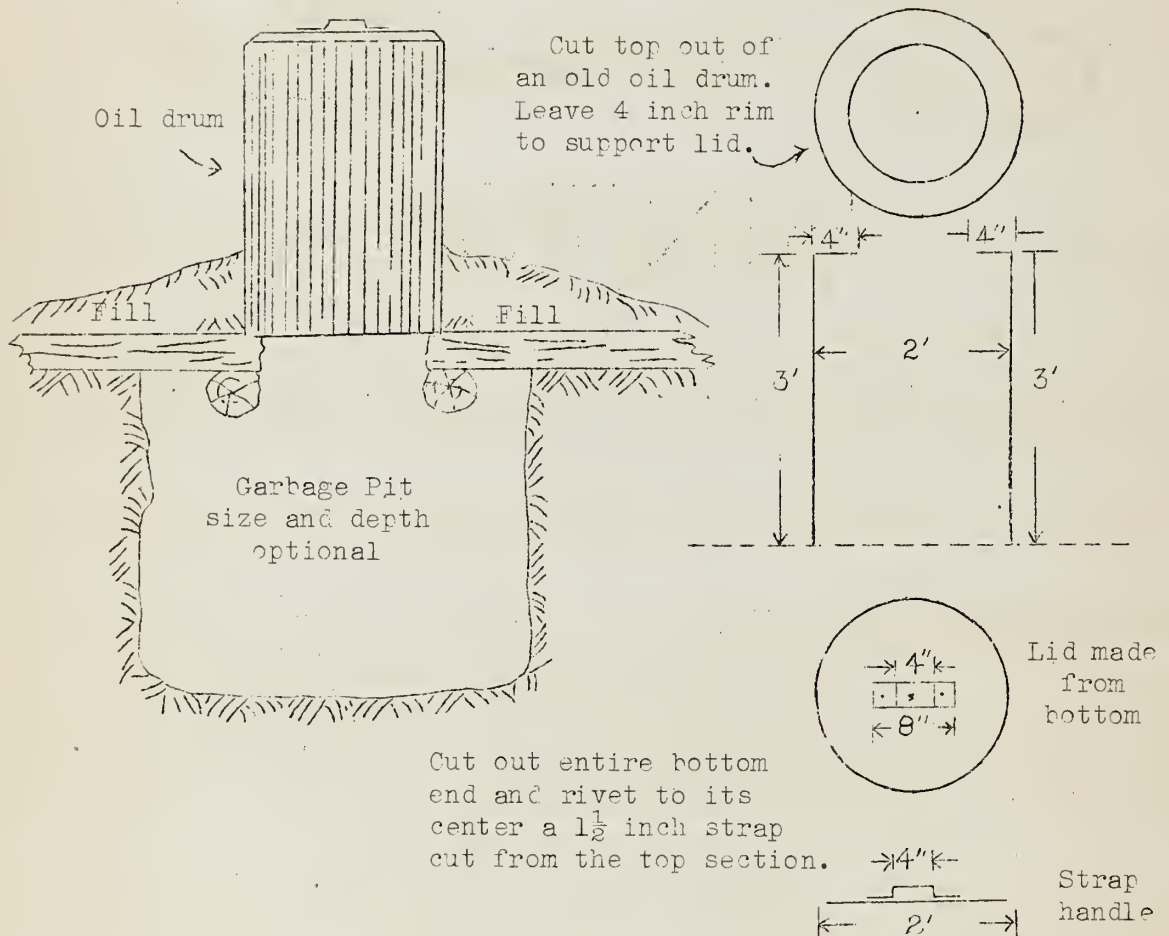
### Rock Dozer

All Regions are familiar with the Rock Dozer designed by Region 6. Region 1 has had six of these attachments in use during the past season and find them a necessary part of road building equipment. The one now in use varies somewhat from the Region 6 model, having seven teeth instead of eight and being somewhat heavier in design. The weight is 1760 pounds and the cost is \$253.00, made up in our own shops.

(over)

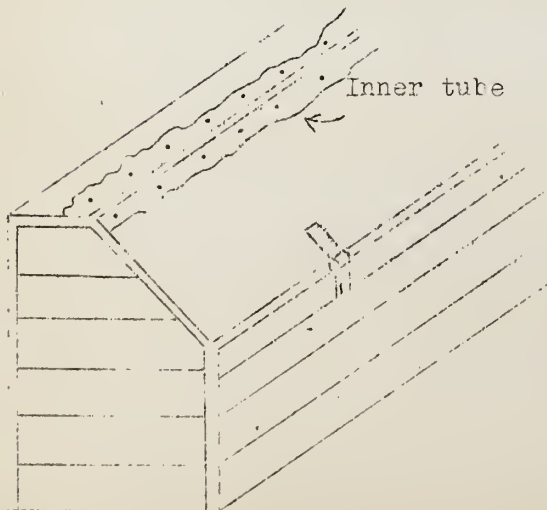
Camp Garbage Pit - Submitted by C. V. Stevens,  
Inspector, Region 1

A suitable garbage pit cover can be made from an old oil barrel. This type of pit cover is fly proof and can be easily moved to a new location.



Cut out entire bottom end and rivet to its center a  $1\frac{1}{2}$  inch strap cut from the top section.

Tool Box Protector - Submitted by L. B. Powell, Region 8,  
District Superintendent.



Mr. R. M. Coppenaver, Camp TVA-5-Va., Rose Hill, Va., uses on his tool boxes a piece of old innertubing, nailed on with roofing nails, over the crack between the lid and the box itself.

Roofing cracks and is unsatisfactory for this purpose. Tin is the same way. This is the most satisfactory method I have seen. See sketch.

Some very constructive ideas on Tractor-Trailbuilder use and upkeep have been submitted by Mr. G. W. Duncan, Equipment Engineer of Region 1.

If base angles break loose from the bottom of the trailbuilder moldboard behind the cutting edge, use old worn out cutting edges to renew the bottom leg of the base angle first cutting clearances for the cutting edge bolts, then welding the cutting edge on with electric arc welder. Build up the two end bottom corners which are poorly protected and receive the hardest wear, with mild steel rod and give them a heavy coat of self hardening Studite or Durox or similar highly abrasive resisting material.

A piece of old jackhammer hose split and wrapped around the trailbuilder hose where chaffing occurs, will prevent wear on the trailbuilder hose.

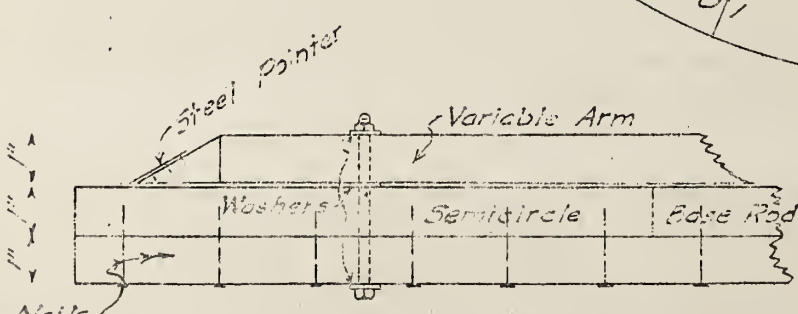
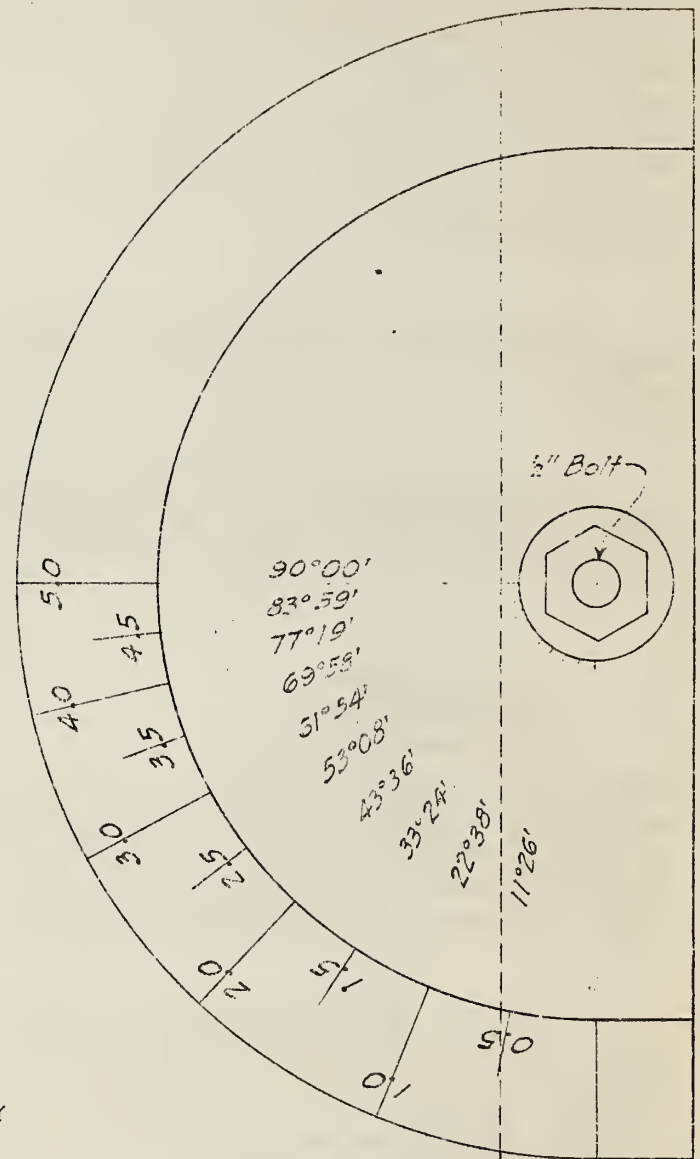
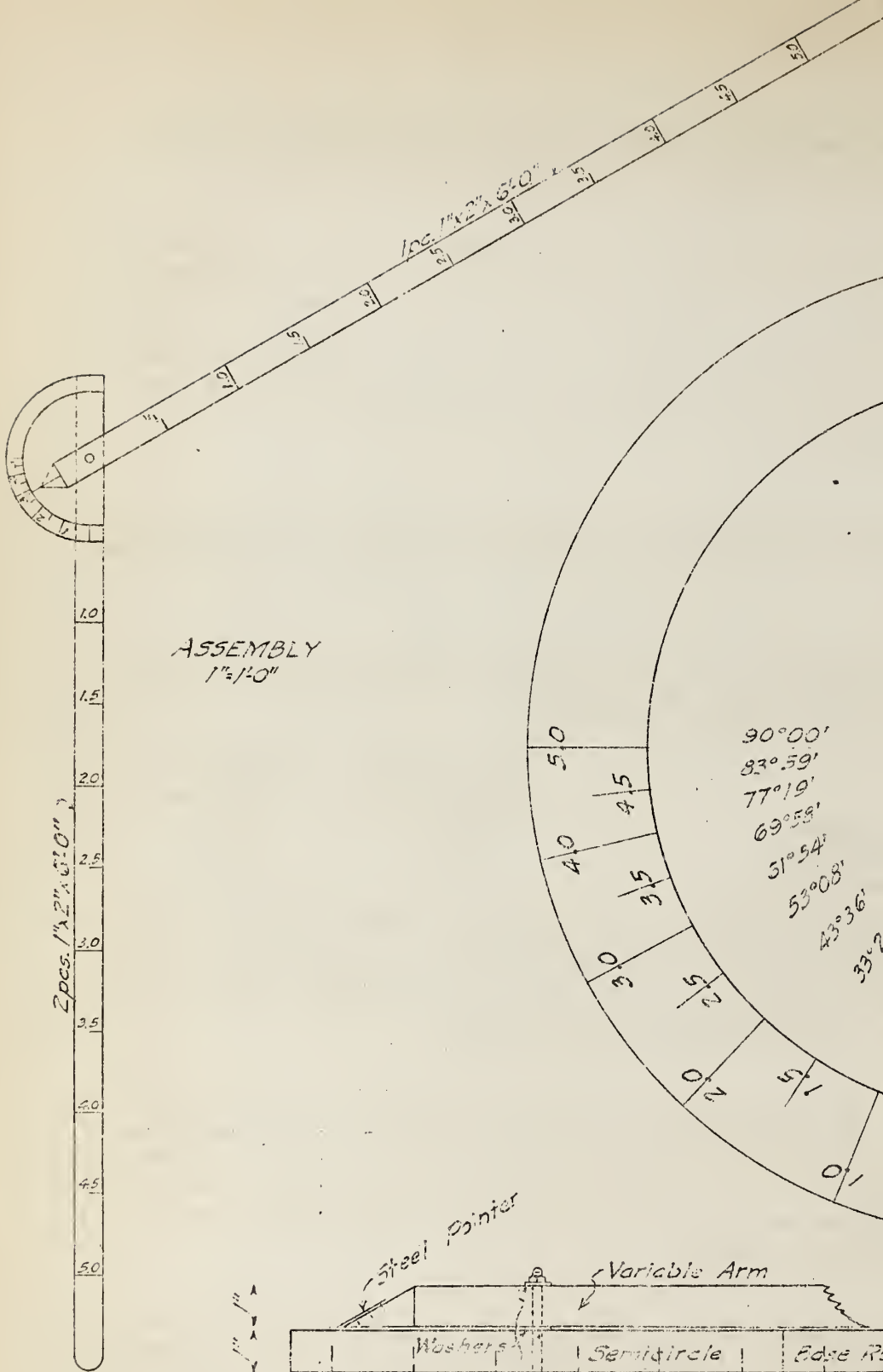
This Region has made up its own specifications for trailbuilder cutting edges and bits which has resulted in a material reduction in the prices charged by the dealers, as follows:

	<u>Price Charged by Dealers</u>	<u>Region One Price</u>
Center blades	24.20	9.00
Short end bits	6.40	2.50
Vertical end bits	9.65	6.50

There seems to be no difference in the amount of wear received. The Region will be glad to supply anyone interested with the details of the specifications and blueprints to those who wish to purchase them or they can be purchased from Region 1. The prices are subject to some variation dependent upon fluctuation in bid prices.

Region 1 has made up specifications for Cletrac grousers. The cost of the grouser supplied by the Cletrac Company was \$2.50 each complete with bolts, nuts and lockwashers. The cost of the Region 1 grouser is \$1.50 complete, and records show that it will out wear the factory grouser. Specifications for these can also be secured from Region 1 or purchased from that Region.

So much replacement was experienced on washer #41013 (See Construction Hints 11/16/35) that a copper gasket has been made up to replace it. The cost of the copper gasket is 6¢ each while the paper gasket was only 3¢, but the copper gasket does not wear out. It should be coated with heavy shellac on both sides before installing, then cinch the bolts up tight and barring an accident, there will be no wear on this gasket. The Region will furnish a die if any other Regions are interested.



DETAIL AT JOINT  
3" = 1'-0"

DETAILS  
OF  
**CUT-SLOPE ROD**  
Designed By: G. G. Sanders  
Natchala National Fore.  
Scales As Shown